

Fireworks

Designed by Yami Yamauchi ©1998
Diagrammed by Mari Michaelis ©2008

Paper: 12 sheets for the standard size, up to 24 sheets for a larger model. Diagram example uses 12 sheets.
Use standard 6" square origami paper or medium weight copy paper cut to 8 1/2 or 5 1/2 inch squares.
For a 12 unit model, you can use 2 x 6 colors or 4 x 3 or 6 x 2.

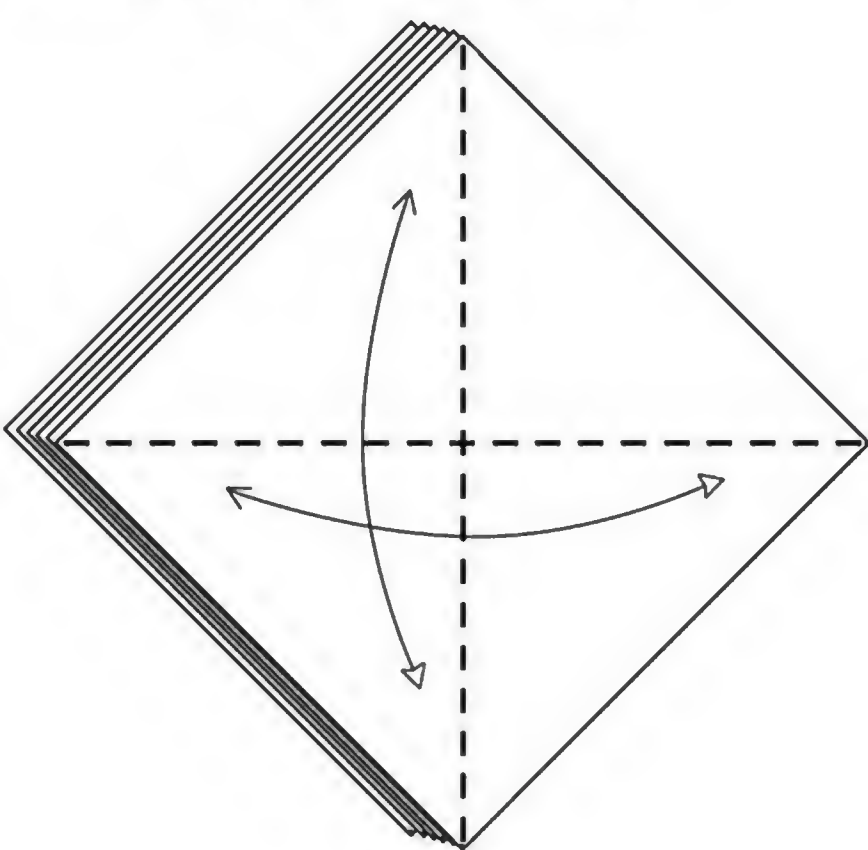


Put the colors in the order you like.

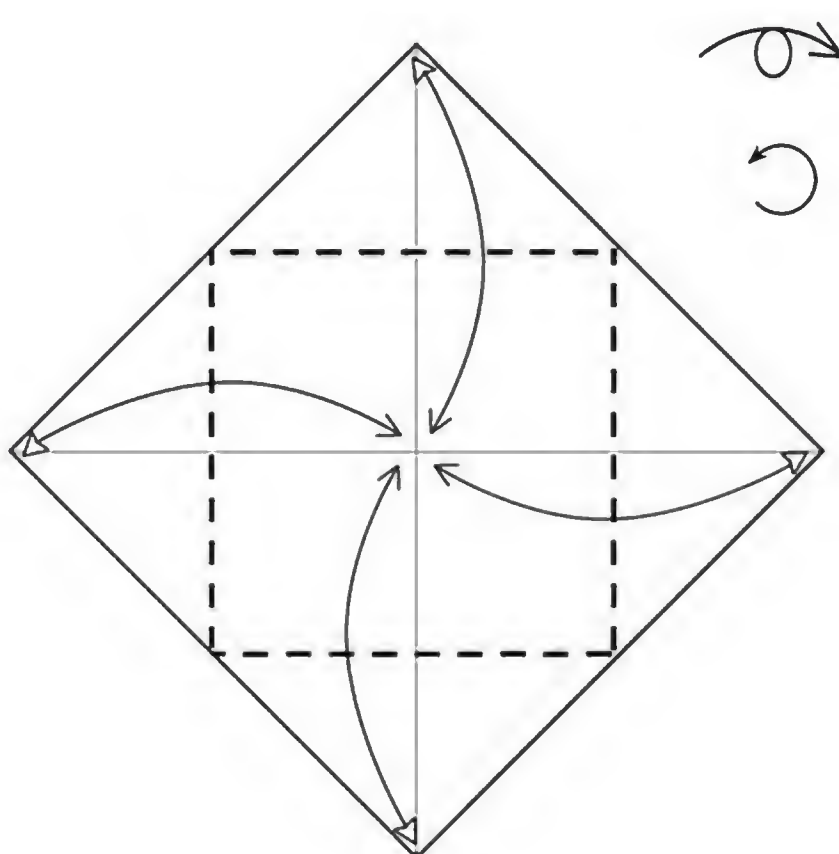
If using standard origami paper with color on one side and white on the other, place 6 sheets color side up in one pile and 6 units color side down (in the same color order) in another pile. Make 6 units starting with white side up, and 6 units starting with color side up. Both sets of units will show the color side only on the finished model.

To make folding the units quicker, 6 sheets can be folded at the same time.
Use a folding bone or other tool to make sharp creases through all the sheets.

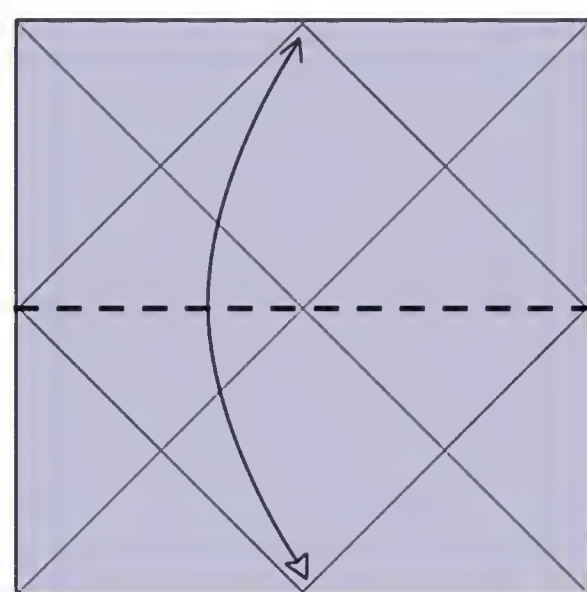
1. Begin white side up. If folding 6 sheets at a time, be sure to keep them lined up. Valley fold and unfold diagonally in both directions.



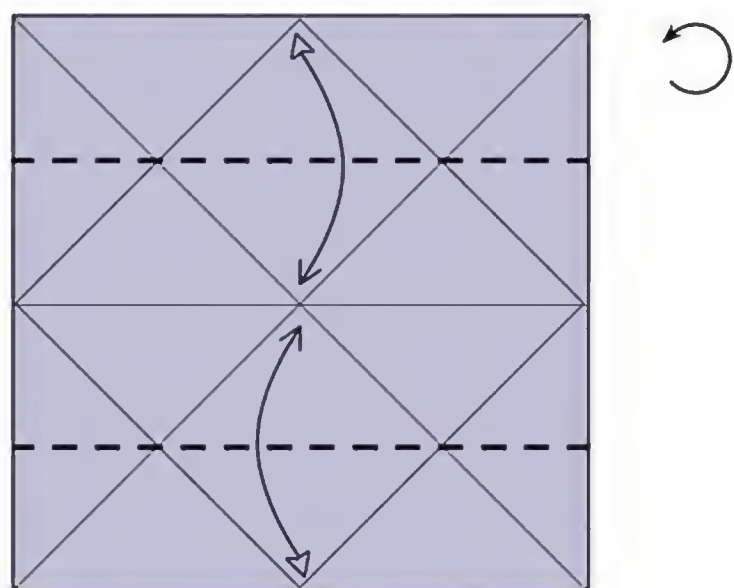
2. Blintz fold and unfold. Turn over and rotate.



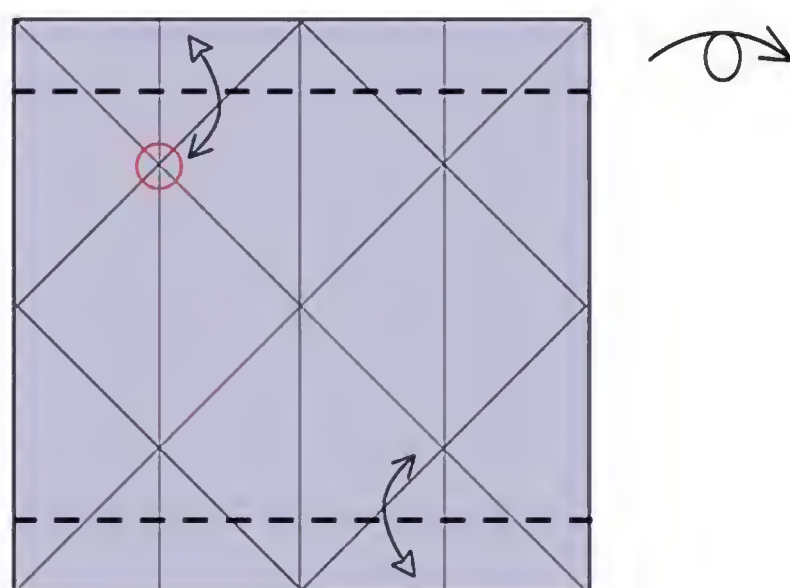
3. Valley fold in half and unfold.



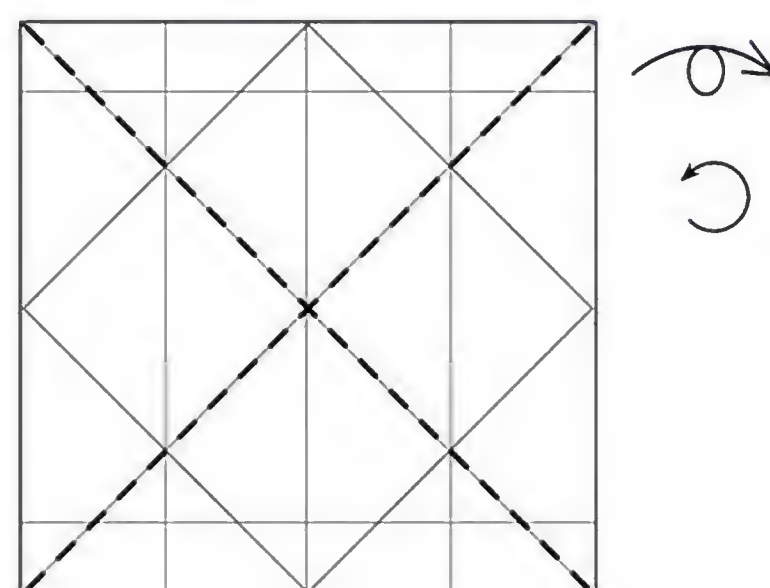
4. Valley fold the top and bottom edges to the center. Unfold. Rotate.



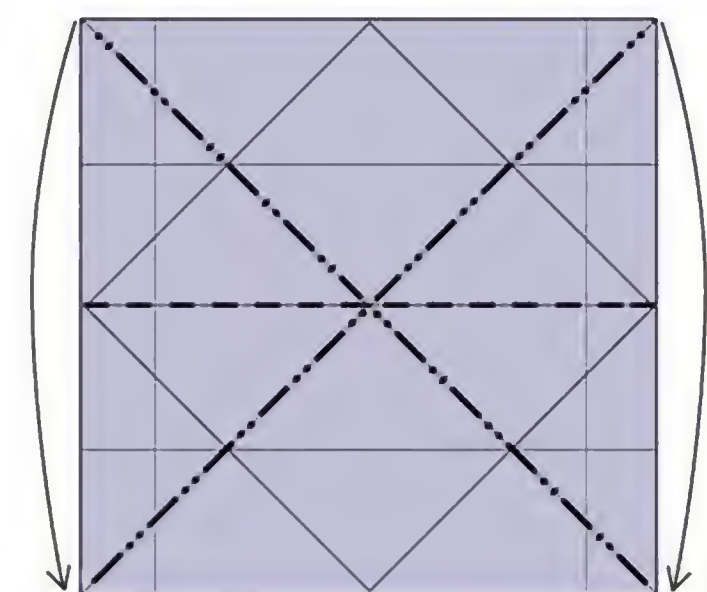
5. Valley fold to where the diagonals intersect. Unfold. Turn over.



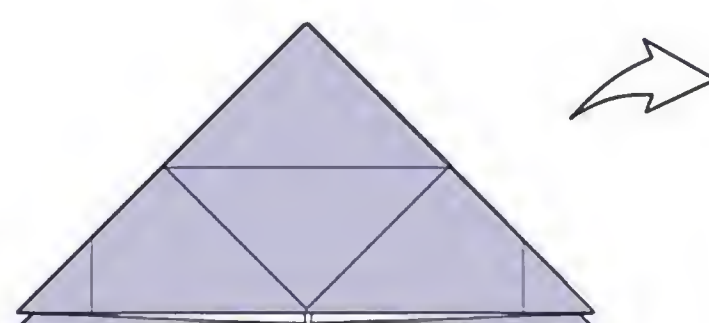
6. Reinforce diagonal creases from step 1. Turn over and rotate.



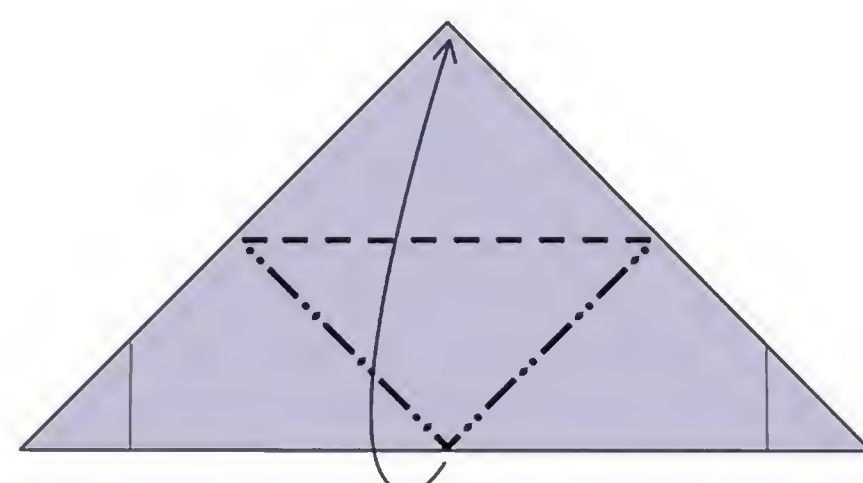
7. Collapse to a waterbomb base.



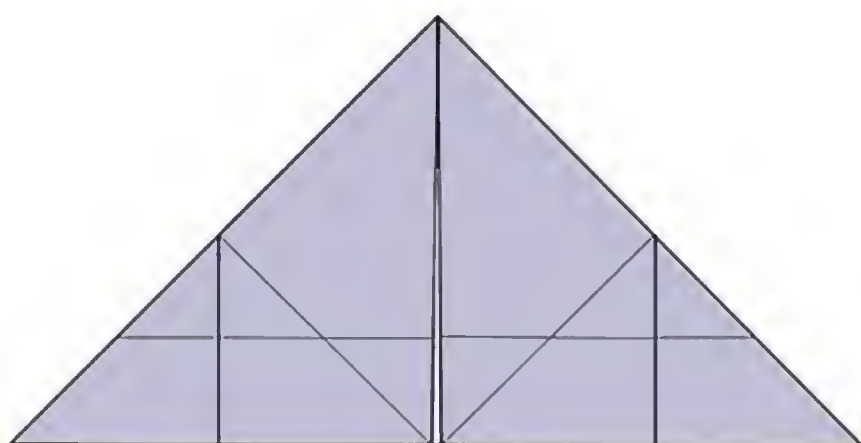
8. Waterbomb base complete.
If folding several sheets at a time, be sure to crease sharply.
Next picture is enlarged.



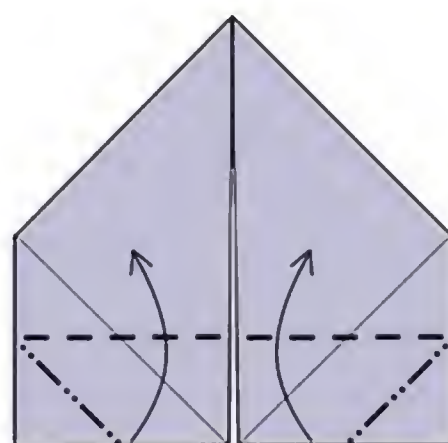
9. Squash fold using existing creases.



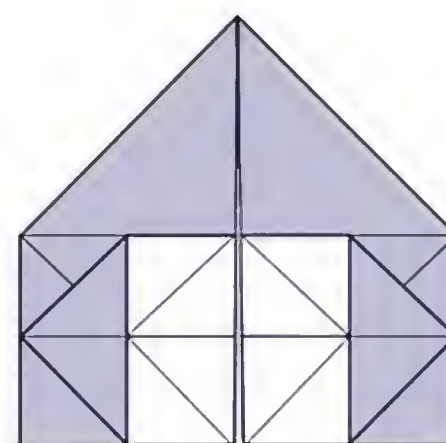
10. Repeat behind.



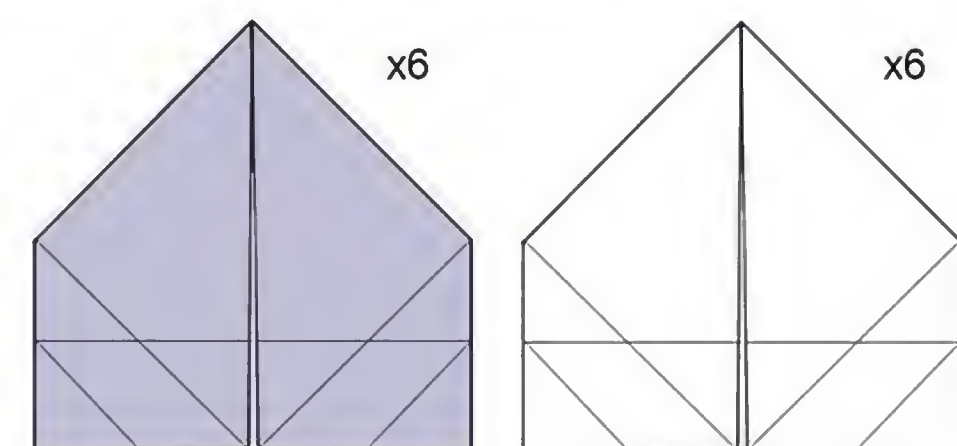
11. Pre-crease the "locks":
Squash fold using existing valley crease.



12. Unfold the locks. Repeat behind.



13. Finished unit. Make 6
units starting white side up
and 6 units starting color side up.

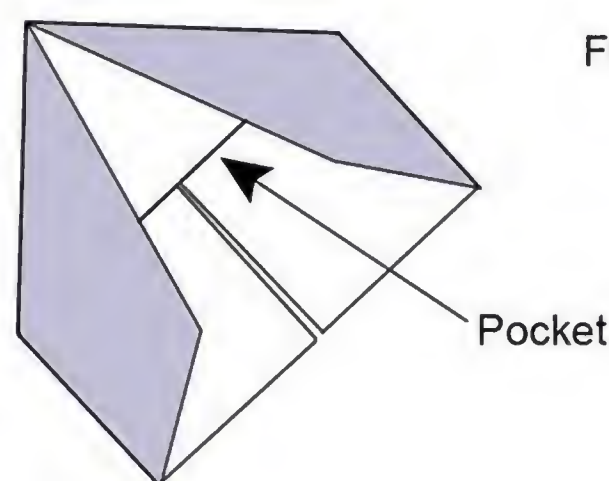


Assembly:

14. If you folded several sheets at the same time, separate the units.
Arrange the units into 2 stacks, one color side up and the other
white side up. Be sure the colors are in the same order in both stacks.

On the White Unit, fold the flaps out.

White Unit -Top View:

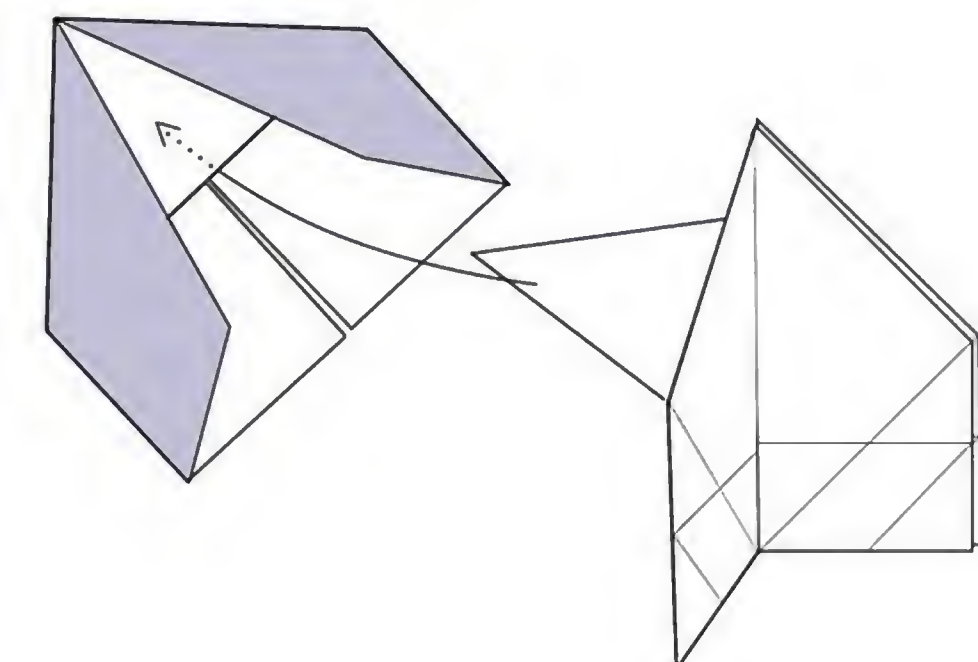


Flap 1

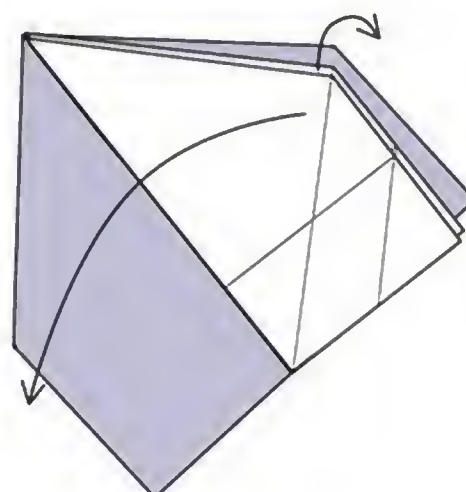
Flap 2

The color inside the white unit should
be the same as the color side up unit.

15. Pinch the right half of the white unit together
and hold it in your right hand. Insert Flap 1 into
the pocket of the color unit.

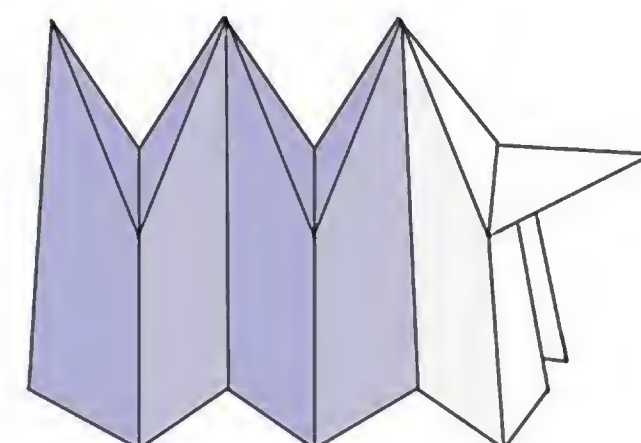


16. Open the right side of the white
unit to expose Flap 2.

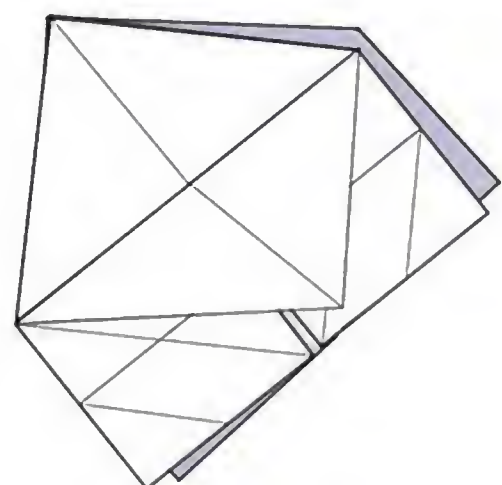


17. Hold the color unit in your left hand,
leaving the outside half of the white unit free.

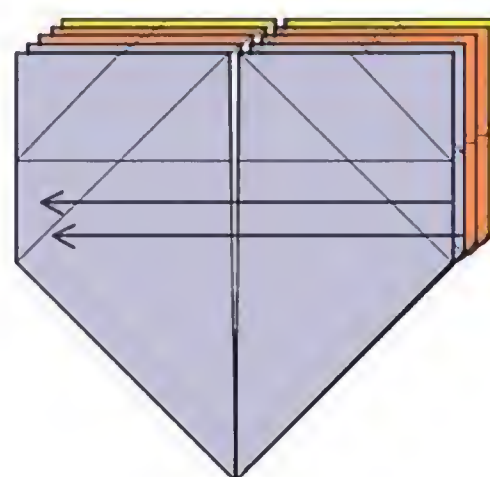
Side view:



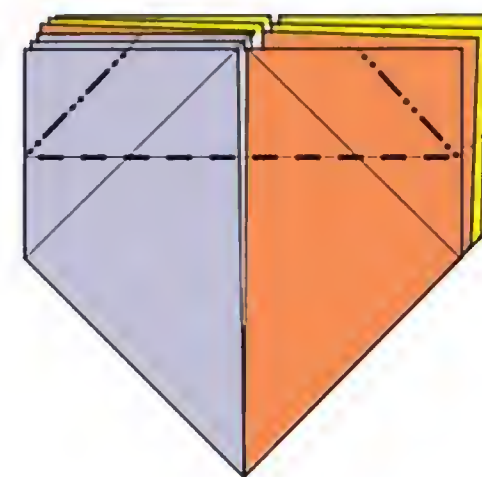
18. Insert Flap 2 from the white unit into the next color unit.
The white unit will then be hidden between the two color units.
Continue this way until all 12 units are connected. Tap the
units so that the bottoms are even. Rotate.



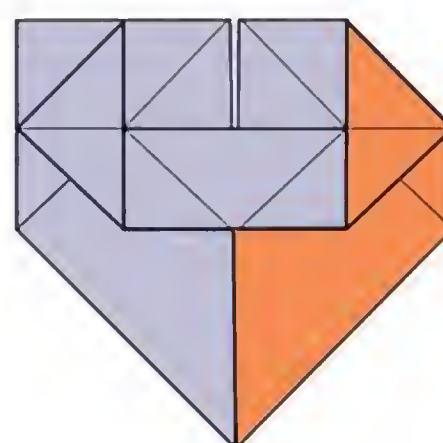
19. Locking the units together:
Fold 2 flaps on the right to the
left side.



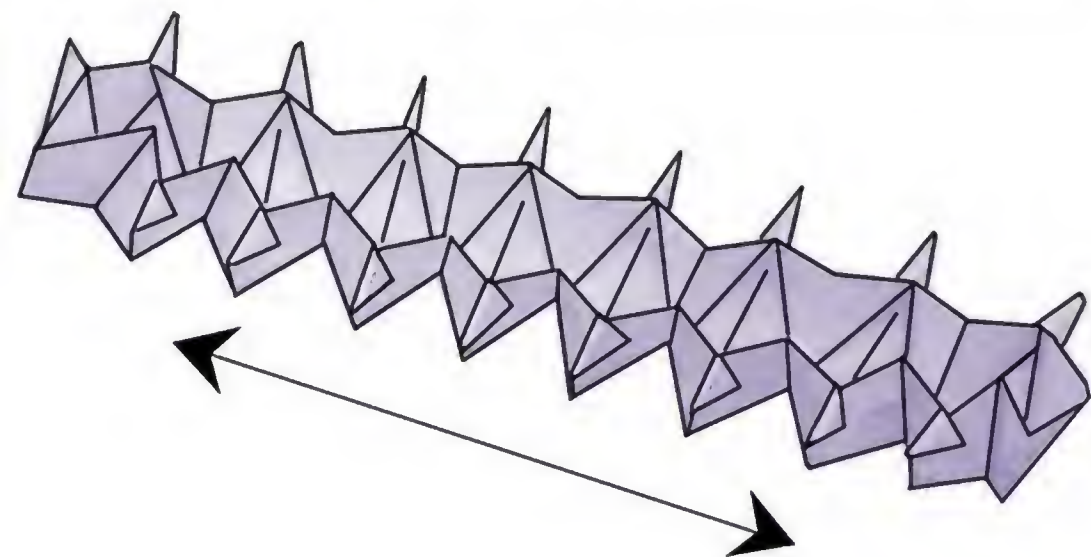
20. Lock the units together using
the lock creases made in Step 11.



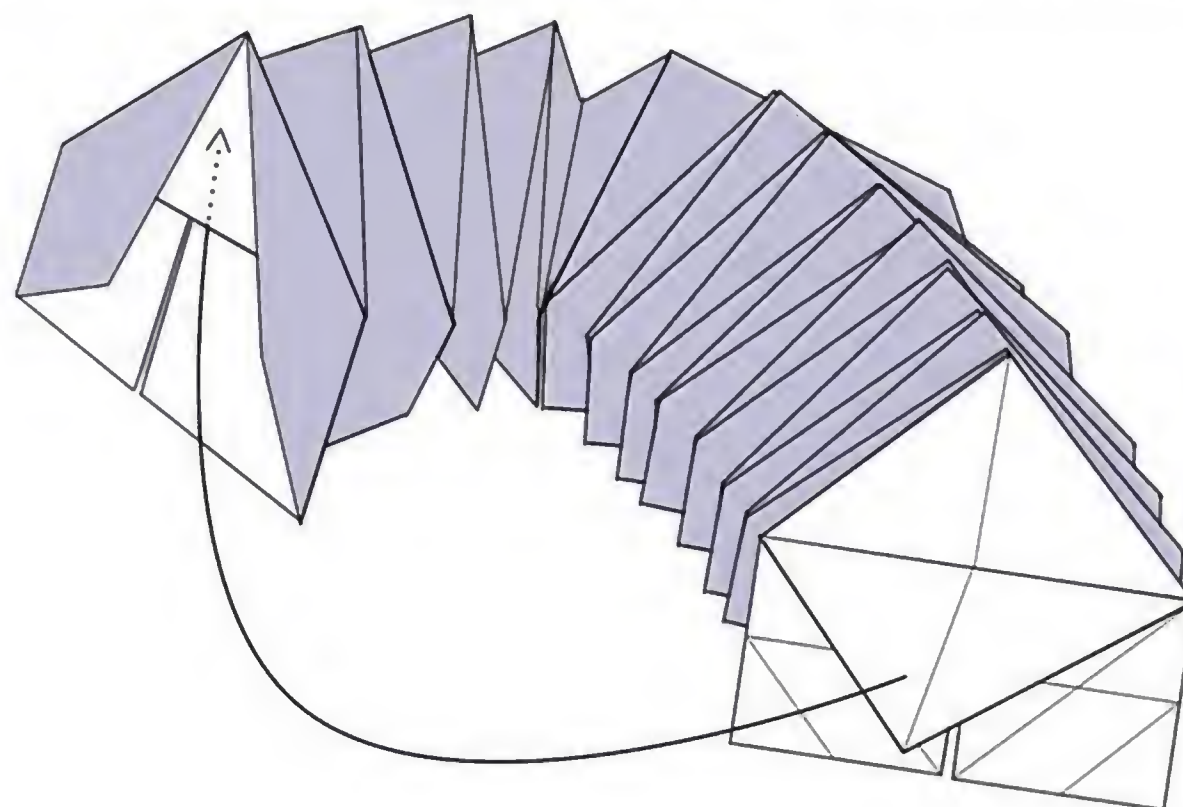
21. Finished lock. Fold right flap to the left and repeat Step 20 to lock.
Continue to the end of the row, skipping the last white unit.
Repeat on the left side.



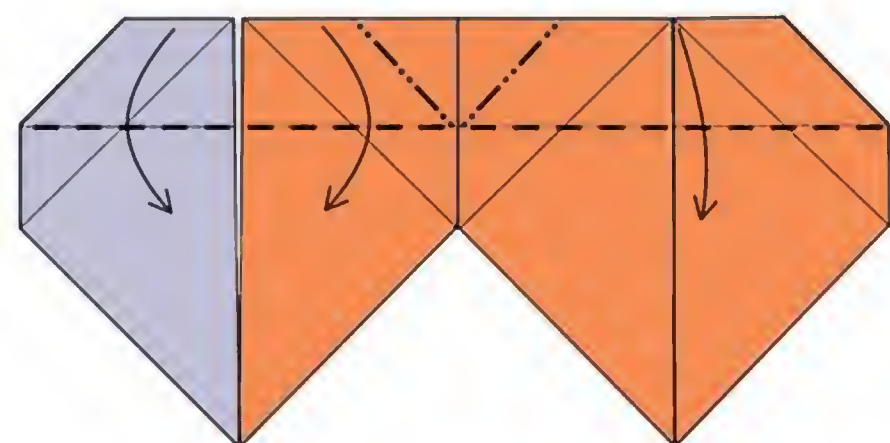
22. Stretch out the units to make joining the ends easier.



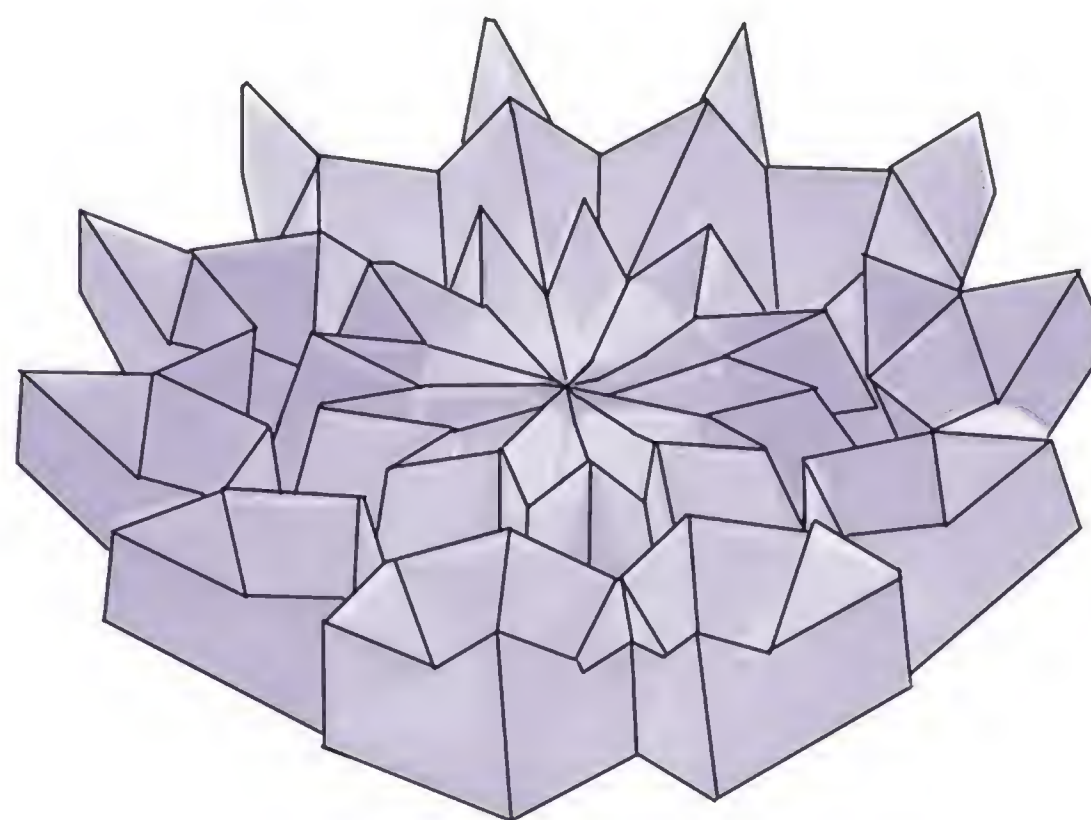
23. Insert the white end unit's flap into the 1st color unit's pocket.



24. Close 2 outer locks to lock the end units together
To lock the 2 inner locks, rotate the model inside out
and lock them.



To enjoy the multi-dimensional transformations of Fireworks,
turn inside out using both hands.



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